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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/762,441	02/08/2001	Masahiko Maeda	Q63016	4617
7	590 08/23/2004		EXAM	INER
Sughrue Mion Zinn			ZACHARIA, RAMSEY E	
Macpeak & Seas 2100 Pennsylvania Avenue NW			ART UNIT	PAPER NUMBER
	DC 20037-3202	1773		

DATE MAILED: 08/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	09/762,441	MAEDA ET AL.
Office Action Summary	Examiner	Art Unit
	Ramsey Zacharia	1773
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet v	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep of 16 NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a sly within the statutory minimum of the will apply and will expire SIX (6) MC e, cause the application to become A	reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
Status	•	
Responsive to communication(s) filed on <u>06 A</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowed closed in accordance with the practice under A	s action is non-final. ance except for formal ma	•
Disposition of Claims		
4) ☐ Claim(s) 1-5,7-9,11,15 and 19 is/are pending 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-5,7-9,11,15 and 19 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine		
	cepted or b) objected to	•
Applicant may not request that any objection to the		···
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex		• •
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	ts have been received. ts have been received in a crity documents have been u (PCT Rule 17.2(a)).	Application No received in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)

Art Unit: 1773

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 06 August 2004 has been entered.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

3. Claims 1-5, 7-9, 11, 15, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saitoh et al. (U.S. Patent 5,229,461) in view of Dessaint et al. (U.S. Patent 4,295,976).

Saitoh et al. teach a coating composition comprising a vinylidene fluoride copolymer which yields a film having excellent weatherability and stain resistance (column 1, lines 54-60). The copolymer comprises units that may be tetrafluoroethylene or chlorotrifluoroethylene (see formula II where X is fluorine or chlorine) and units having a hydroxyl functional group (formula III) (column 2, lines 17-47). The composition further comprises a curing agent, such as an isocyanate, an amino resin, or an acid anhydride, that is reactive with the hydroxyl groups in

Art Unit: 1773

the copolymer (column 9, lines 7-29). The coating may be applied over a primer coating, such as an acrylic coating (column 11, lines 1-11).

Regarding the stain resistance limitations in claims 1 and 2, the cracking resistance limitations in claims 3 and 4, and the hydroxyl value limitation of claim 9, these are taken to material properties of the coating composition. Since the coating composition of Saitoh et al. appears to be the same as that of the instant invention (especially since page 7, lines 17-19 of the instant specification cites the composition of JP-A-4-28707 as a suitable curable fluorine-containing resin and U.S. Patent 5,229,461 is an English language equivalent of JP-A-4-28707 as shown by Derwent abstract 1991-347997).

Regarding the limitations of claim 5, while Saitoh et al. is silent with respect to the weight of the coating, the coating weight of a protective coating is a known to affect the degree of protection (e.g. stain resistance and weatherability). As such, it would have been obvious to one having ordinary skill in the art at the time the invention was made to optimize the weight of the coating, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2nd 272, 205 USPQ 215 (CCPA 1980).

Saitoh et al. do not teach applying the composition to leather, however, the composition is taught as being applied on substrates such as metal, wood, concrete, plastic, and the like (column 11, lines 5-8).

Dessaint et al. disclose that materials such as metals, plastics, wood materials, concrete, and leather are considered equivalent substrates for fluorinated anti-staining coatings (column 1,

Art Unit: 1773

lines 5-11). That is, Dessaint et al. shows that for anti-staining fluorinated coatings metal, wood, concrete, plastic, and leather are equivalent structure substrates.

Therefore, because these substrates were art-recognized equivalents at the time the invention was made, one of ordinary skill in the art would have found it obvious to apply the coating of Saitoh et al. to any equivalent substrate, including leather, that is desired to be rendered stain resistant.

Therefore the invention of claims 1-5, 7-9, 11, 15, and 19 would have been obvious to one of ordinary skill in the art at the time the inventions were made.

Response to Arguments

4. Applicant's arguments filed 06 August 2004 have been fully considered but they are not persuasive.

The applicants argues that Dessaint et al. does not disclose the use of a primer and Saitoh et al., while teaching the use of a primer, only teach applying their coating to metal, wood, concrete, or plastic. The applicants argue that one skilled in the art would not contemplate the use of a primer on leather because a primer layer for metal, wood, concrete, or plastic would make leather hard.

This is not persuasive for the following reasons. First it is noted that Saitoh et al. do not restrict the application of their anti-staining coating to metal, wood, concrete, or plastic. Rather, Saitoh et al. teach applying the coating to metal, wood, concrete, plastic, *or the like*. Dessaint et al. demonstrates that, in the field of anti-staining coatings, materials such as metals, plastics, wood materials, concrete, and leather are all considered suitable substrates. That is, one skilled

Art Unit: 1773

in the art would readily recognize that leather would be included in the grouping "metal, wood, concrete, plastic, or the like." Regarding the assertion that one skilled in the art would not contemplate the use of a primer on leather for fear of making the leather hard, this appears to be an opinion that is not supported by the art of record. Saitoh et al. do not teach that their primer hardens the substrate to which it is applied. Moreover, one skilled in the art, recognizing that leather would be included in the grouping "metal, wood, concrete, plastic, or the like", would presume that the invention as disclosed by Saitoh et al. (including a primer layer) may be suitably applied to leather.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramsey Zacharia whose telephone number is (571) 272-1518. The examiner can normally be reached on Monday through Friday from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones, can be reached on (571) 272-1535. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ramsey Zacharia Primary Examiner Tech Center 1700